



Weatherford®

REAL RESULTS

Austria: ESS® Sand-Control Solution for Gas-Storage Well Leads to Field Production Record

Objectives

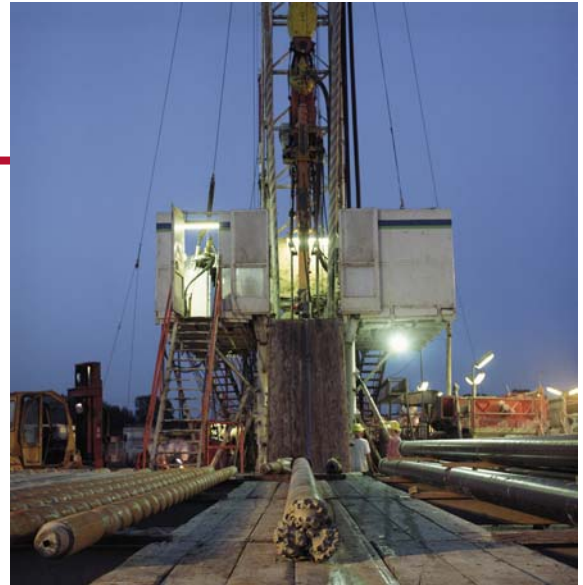
- Control sand production in a gas-storage well.
- Maximize productivity of well and improve operational efficiency.

Results

- Various completion options (standalone screen, gravel pack, and ESS expandable sand screen) were appraised by Weatherford.
- Weatherford recommended the ESS approach to provide a compliant sandface completion that would remove the annulus, stabilize the formation face, render a large ID and open area, present a lower risk for deployment, and facilitate the cleanup and displacement of drilling mud. Additionally, the ESS completion would simplify logistics and not require gravel pumping.
- ESS joints (5-1/2 in.) were successfully installed and compliantly expanded to 4,970 ft (1,515 m) total depth (TD). A 9 5/8- x 7 5/8-in. EXR single-trip hanger was set at 4,518 ft (1,377 m), and spaced out with 230 ft (70 m) of 7 5/8-in. blank pipe.
- The operator's post-installation log confirmed compliant expansion of the ESS system.

Value to Client

- With the increased ID and open area, the well achieved a significantly better flowrate than the offset openhole gravel-pack well.
- The well flowed at 900,000 m³/d during the winter period—a new production record for the field and sufficient to provide a large portion of Austria's domestic energy demands through the winter months of 2008 to 2009.
- Single-trip expansion of the completion reduced the rig time that would have been required with a gravel pack.



Weatherford's ESS system reduced rig time that would have been required with a gravel pack in a gas storage well and achieved record production rates for the Schoenkirchen field.

Client

OMV Austria

Location

Schoenkirchen field, Austria

Well Type

Gas storage

Hole Size and Angle

8-3/8 in., 87°

Casing Size

9-5/8 in.

Setting Depths

Casing: 4,554 ft (1,388 m)

TD: 4,970 ft (1,515 m)

Bullnose: 4,925 ft (1,501 m)

Total ESS Length

163 ft (50 m)

Products/Services

- ESS expandable sand screen system
- EXR single-trip hanger